

IN THE CLAIMS:

The following listing of claims replaces all prior listings and versions of claims in this application:

1. (Currently amended) A vehicle frame, comprising:
a first frame portion that comprises a plurality of struts associated with each other to form a first framework; and
a second frame portion separably associateable with the first frame portion in a stiffening association for significantly increasing the stiffness of the first frame portion;
wherein the associated first and second frame portions are configured for supporting a rider sitting in on the vehicle frame, the associated frame portions cooperatively defining and substantially enclosing an interior cavity between the frame portions, the interior cavity being dimensioned for housing a component of a propulsion system for propelling the vehicle and comprising attachments for supportedly connecting to wheels of the vehicle.
2. (Original) The vehicle frame of claim 1, wherein the first frame portion comprises at least one skin member structurally associated with the struts for closing at least portions of openings defined between the struts.
3. (Currently amended) The vehicle frame of claim 2, wherein the framework has a stiffness, and the skin member of the first frame portion is configured and associated with the framework for significantly increasing the stiffness thereof.
4. (Original) The vehicle frame of claim 3, wherein the skin member of the first frame portion comprises a plurality of skins coupled with the framework.
5. (Currently amended) The vehicle frame of claim 2, wherein the skin member of the first frame portion comprises a battery tray inside the interior cavity configured for supporting a battery to power the propulsion system the battery tray being associated with the first framework for significantly stiffening the first framework.

6. (Cancelled)

7. (Currently amended) The vehicle frame of claim 6 5, wherein first and second frame portions are configured for permitting removal of the battery tray from the frame interior cavity when the first and second frame portions are separated.

8. (Original) The vehicle frame of claim 5, wherein the struts comprise at least one concave bracket configured for receiving and supporting a bottom portion of the tray.

9. (Cancelled)

10. (Currently amended) The vehicle frame of claim 9 1, wherein a plurality of the struts are welded to each other.

11. (Currently amended) The vehicle frame of claim 10, wherein the struts comprise a rear group of struts that are formed in a unitary piece and define an open rear wall of the seotter vehicle.

12. (Currently amended) The vehicle frame of claim 1, wherein the frame has a stiffness, and the second frame member portion comprises a skin member configured for significantly contributing to the stiffness of the frame.

13. (Currently amended) The vehicle frame of claim 12, wherein the second frame member portion comprises a plurality of struts associated with the skin member for significantly stiffening the skin member and the frame.

14. (Currently amended) The vehicle frame of claim 12 1, wherein the struts of the first frame portion are made of aluminum or an alloy thereof, and the second frame portion comprises a skin member of the second frame portion comprises a plurality of skins made of a composite, fiber-reinforced material.

15. (Original) The vehicle frame of claim 1, wherein the first frame portion is a lower frame portion disposed beneath the second frame portion, which is an upper frame portion.

16. (Original) The vehicle frame of claim 15, wherein the lower frame portion comprises a head tube configured to rotatably receive a steering tube that is mounted with a steerable wheel of the vehicle.

17. (Original) The vehicle frame of claim 1, wherein the frame defines a stepthrough to provide a scooter frame.

18. (Currently amended) The vehicle frame of claim 1, wherein the first frame portion has a longitudinal torsional stiffness, and the associated first and second frame portions have a an assembled longitudinal torsional stiffness that is increased compared to the longitudinal torsional stiffness of the first frame member portion by a factor of at between about 1.2 and 10.

19. (Currently amended) ~~A~~ An electric vehicle, comprising:
the vehicle frame of claim 1;
~~the~~ a seat supportedly mounted on at least one of the frame portions;
~~the~~ plurality of wheels, which are supportively associated with the frame;
~~the~~ an energy source housed in the interior cavity; and
~~a~~ an electric motor connected to and powered by the energy source and
connected to at least one of the wheels for propelling the vehicle.

20. (Original) The vehicle of claim 19, wherein the wheels on which the vehicle is movably supported comprise up to three wheels.

21. (Original) The vehicle of claim 19, further comprising a suspension system connecting the wheels to the vehicle frame.

22. (Original) The vehicle of claim 21, wherein the suspension system comprises at least one swing arm supportively associating the frame with at least one of the wheels.

23. (Currently amended) A An electric vehicle, comprising:
a vehicle frame, comprising:
a lower frame portion that comprises a plurality of struts associated with each other to form a first framework and a skin member covering openings between the struts, and

a upper frame portion comprising a skin member associable with the first frame portion in a stiffening association for significantly increasing the stiffness of the first frame portion, wherein the associated first and second frame portions cooperatively define and substantially enclose an interior cavity therebetween;

~~the a~~ seat supportedly mounted on the upper frame portion;
~~the a~~ plurality of wheels supportively associated with the frame;
~~the an~~ electrical energy source housed in the interior cavity; and
a electric motor connected to and powered by the energy source and connected to at least one of the wheels for propelling the vehicle.

24. (Currently amended) The vehicle of claim 23, wherein the energy source comprises a battery, the assembled frame has a torsional stiffness, and the skin member of the lower frame portion comprises a battery tray that is configured for supporting the battery to significantly increase the torsional stiffness of the assembled frame, the upper and lower frame portions being configured for allowing removal of the battery tray from the frame interior cavity when the upper and lower frame portions are separated, wherein the assembled frame portions are configured for substantially enclosing the battery.

25. (New) The vehicle frame of claim 1, wherein the interior cavity has a volume of at least about 1,000 in³ to contain the component of the propulsion system.

26. (New) The vehicle frame of claim 25, wherein the interior cavity has a height of at least about 15 inches and a width of at least about 6 inches.

27. (New) The vehicle frame of claim 26, wherein the interior cavity has a length of at least about 25 inches.

28. (New) The vehicle frame of claim 1, wherein the interior cavity has a volume of at least about 2,500 in³ to contain the component of the propulsion system.

29. (New) The vehicle frame of claim 1, wherein the associated first and second frame portions cooperatively substantially enclose at least top, bottom, front, and lateral sides of the interior cavity.

30. (New) The vehicle frame of claim 3, wherein the struts of the first frame portion and the skin member are made of aluminum or an alloy thereof and are welded together.

31. (New) The vehicle frame of claim 3, wherein the skins close off at least about 75% of the openings defined between the struts.

32. (New) The vehicle of claim 23, wherein the first frame portion comprises longitudinal struts that run generally longitudinally and are spaced from each other substantially on opposite sides of the interior cavity, the first frame portion being supported on the wheels such that the longitudinal struts are in compression, and the second frame portion extends over and across the interior cavity and is structurally associated with the longitudinal portions for substantially increasing the stiffness thereof.